Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A frequency dividing circuit comprising:

a first frequency divider for dividing output of a local oscillator and outputting a first in-phase local oscillation signal and a first quadrature local oscillation signal;

a second frequency divider being connected to the first in-phase local oscillation signal output for dividing the first in-phase local oscillation signal and outputting a second in-phase local oscillation signal and a second quadrature local oscillation signal; and

a phase correction means for keeping unit which keeps the phase difference between the first in-phase local oscillation signal and the first quadrature local oscillation signal at 90 degrees.

Claim 2 (canceled)

Claim 3 (currently amended): The frequency dividing circuit according to claim 1, wherein the phase correction means unit includes a dummy circuit being connected to the first quadrature local oscillation signal output and having

input impedance equal to that of the second frequency divider.

Claim 4 (canceled)

Claim 5 (currently amended): The frequency dividing circuit according to claim 3 or 4, wherein the dummy circuit is a circuit including a resistor and a capacitor.

Claim 6 (currently amended): The frequency dividing circuit according to claim 3 or 4, wherein the dummy circuit is the same amplifier as an input amplifier of the second frequency divider.

Claim 7 (currently amended): The frequency dividing circuit according to claim 3 - or - 4, wherein the dummy circuit is the same circuit as a part of an input amplifier of the second frequency divider.

Claim 8 (original): The frequency dividing circuit according to claim 6, further comprising a control section for controlling the current of the input amplifier and the dummy circuit.

Claim 9 (currently amended): The frequency dividing circuit according to claim 1 - or 2, wherein the phase

correction means unit includes a control section for controlling the current of an in-phase output amplifier of the first frequency divider and a quadrature output amplifier of the first frequency divider.

Claim 10 (currently amended): The frequency dividing circuit according to claim 1, wherein the phase correction means unit includes a control section for controlling the current of a dummy circuit connected to the first quadrature local oscillation signal output, an in-phase output amplifier of the first frequency divider, and a quadrature output amplifier of the first frequency divider.

Claim 11 (canceled)

Claim 12 (currently amended): The frequency dividing circuit according to claim $10 \frac{10}{11}$, wherein the dummy circuit is a circuit including a resistor and a capacitor.

Claim 13 (currently amended): The frequency dividing circuit according to claim 10 or 11, wherein the dummy circuit has the same circuit configuration as an input amplifier of the second frequency divider.

Claim 14 (currently amended): The frequency dividing circuit according to claim 10 or 11, wherein the dummy

circuit has the same circuit configuration as a part of an input amplifier of the second frequency divider.

Claim 15 (original): The frequency dividing circuit according to claim 13, further comprising a control section for controlling the current of the input amplifier and the dummy circuit.

Claim 16 (currently amended): A multimode radio comprising a frequency dividing circuit according to any of claims 1 to 15 claim 1.

Claim 17 (original): The multimode radio according to claim 16, further comprising:

- a local oscillator for outputting a local oscillation signal to the first frequency divider;
- a first quadrature modulator to which the first in-phase local oscillation signal and the first quadrature local oscillation signal are input, the first quadrature modulator for performing quadrature modulation of an in-phase baseband transmission signal and a quadrature baseband transmission signal and outputting a first transmission signal having a first frequency; and
- a second quadrature modulator to which the second in-phase local oscillation signal and the second quadrature local oscillation signal are input, the second quadrature

modulator for performing quadrature modulation of the in-phase baseband transmission signal and the quadrature baseband transmission signal and outputting a second transmission signal having a second frequency.

Claim 18 (original): The multimode radio according to claim 17, further comprising a control section being connected to the second frequency divider, the first quadrature modulator, and the second quadrature modulator for switching a mode between a mode of transmitting the first transmission signal and a mode of transmitting the second transmission signal.

Claim 19 (original): The multimode radio according to claim 16, further comprising:

a local oscillator for outputting a local oscillation signal to the first frequency divider;

a first quadrature demodulator to which the first in-phase local oscillation signal and the first quadrature local oscillation signal are input, the first quadrature demodulator for performing quadrature demodulation of a first reception signal having a first frequency and outputting an in-phase baseband reception signal and a quadrature baseband reception signal; and

a second quadrature demodulator to which the second in-phase local oscillation signal and the second quadrature

local oscillation signal are input, the second quadrature demodulator for performing quadrature demodulation of a second reception signal having a second frequency and outputting the in-phase baseband reception signal and the quadrature baseband reception signal.

Claim 20 (original): The multimode radio according to claim 19, further comprising a control section being connected to the second frequency divider, the first quadrature demodulator, and the second quadrature demodulator for switching a mode between a mode of receiving the first reception signal and a mode of receiving the second reception signal.

Claim 21 (original): The multimode radio according to claim 16, further comprising:

- a local oscillator for outputting a local oscillation signal to the first frequency divider;
- a first quadrature modulator to which the first in-phase local oscillation signal and the first quadrature local oscillation signal are input, the first quadrature modulator for performing quadrature modulation of an in-phase baseband transmission signal and a quadrature baseband transmission signal and outputting a first transmission signal having a first frequency;

a second quadrature modulator to which the second in-phase local oscillation signal and the second quadrature local oscillation signal are input, the second quadrature modulator for performing quadrature modulation of the in-phase baseband transmission signal and the quadrature baseband transmission signal and outputting a second transmission signal having a second frequency;

a first quadrature demodulator to which the first in-phase local oscillation signal and the first quadrature local oscillation signal are input, the first quadrature demodulator for performing quadrature demodulation of a first reception signal having the first frequency and outputting an in-phase baseband reception signal and a quadrature baseband reception signal; and

a second quadrature demodulator to which the second in-phase local oscillation signal and the second quadrature local oscillation signal are input, the second quadrature demodulator for performing quadrature demodulation of a second reception signal having the second frequency and outputting the in-phase baseband reception signal and the quadrature baseband reception signal.

Claim 22 (original): The multimode radio according to claim 21, further comprising a control section being connected to the second frequency divider, the first quadrature modulator, the second quadrature modulator, the

first quadrature demodulator, and the second quadrature demodulator for switching a mode between a mode of transmitting the first transmission signal and receiving the first reception signal and a mode of transmitting the second transmission signal and receiving the second reception signal.

Claim 23 (new): A frequency dividing circuit comprising:

a first frequency divider for dividing output of a local oscillator and outputting a first in-phase local oscillation signal and a first quadrature local oscillation signal;

a second frequency divider being connected to the first quadrature local oscillation signal output for dividing the first quadrature local oscillation signal and outputting a second in-phase local oscillation signal and a second quadrature local oscillation signal; and

a phase correction unit which keeps the phase difference between the first in-phase local oscillation signal and the first quadrature local oscillation signal at 90 degrees.

Claim 24 (new): The frequency dividing circuit according to claim 23, wherein the phase correction unit includes a dummy circuit being connected to the first

in-phase local oscillation signal output and having input impedance equal to that of the second frequency divider.

Claim 25 (new): The frequency dividing circuit according to claim 24, wherein the dummy circuit is a circuit including a resistor and a capacitor.

Claim 26 (new): The frequency dividing circuit according to claim 24, wherein the dummy circuit is the same amplifier as an input amplifier of the second frequency divider.

Claim 27 (new): The frequency dividing circuit according to claim 24, wherein the dummy circuit is the same circuit as a part of an input amplifier of the second frequency divider.

Claim 28 (new): The frequency dividing circuit according to claim 26, further comprising a control section for controlling the current of the input amplifier and the dummy circuit.

Claim 29 (new): The frequency dividing circuit according to claim 23, wherein the phase correction unit includes a control section for controlling the current of an in-phase output amplifier of the first frequency divider

and a quadrature output amplifier of the first frequency divider.

Claim 30 (new): The frequency dividing circuit according to claim 23, wherein the phase correction unit includes a control section for controlling the current of a dummy circuit connected to the first in-phase local oscillation signal output, an in-phase output amplifier of the first frequency divider, and a quadrature output amplifier of the first frequency divider.

Claim 31 (new): The frequency dividing circuit according to claim 30, wherein the dummy circuit is a circuit including a resistor and a capacitor.

Claim 32 (new): The frequency dividing circuit according to claim 30, wherein the dummy circuit has the same circuit configuration as an input amplifier of the second frequency divider.

Claim 33 (new): The frequency dividing circuit according to claim 30, wherein the dummy circuit has the same circuit configuration as a part of an input amplifier of the second frequency divider.

Claim 34 (new): The frequency dividing circuit according to claim 32, further comprising a control section for controlling the current of the input amplifier and the dummy circuit.

Claim 35 (new): A multimode radio comprising a frequency dividing circuit according to claim 23.

Claim 36 (new): The multimode radio according to claim 35, further comprising:

a local oscillator for outputting a local oscillation signal to the first frequency divider;

a first quadrature modulator to which the first in-phase local oscillation signal and the first quadrature local oscillation signal are input, the first quadrature modulator for performing quadrature modulation of an in-phase baseband transmission signal and a quadrature baseband transmission signal and outputting a first transmission signal having a first frequency; and

a second quadrature modulator to which the second in-phase local oscillation signal and the second quadrature local oscillation signal are input, the second quadrature modulator for performing quadrature modulation of the in-phase baseband transmission signal and the quadrature baseband transmission signal and outputting a second transmission signal having a second frequency.

Claim 37 (new): The multimode radio according to claim 36, further comprising a control section being connected to the second frequency divider, the first quadrature modulator, and the second quadrature modulator for switching a mode between a mode of transmitting the first transmission signal and a mode of transmitting the second transmission signal.

Claim 38 (new): The multimode radio according to claim 35, further comprising:

a local oscillator for outputting a local oscillation signal to the first frequency divider;

a first quadrature demodulator to which the first in-phase local oscillation signal and the first quadrature local oscillation signal are input, the first quadrature demodulator for performing quadrature demodulation of a first reception signal having a first frequency and outputting an in-phase baseband reception signal and a quadrature baseband reception signal; and

a second quadrature demodulator to which the second in-phase local oscillation signal and the second quadrature local oscillation signal are input, the second quadrature demodulator for performing quadrature demodulation of a second reception signal having a second frequency and outputting the in-phase baseband reception signal and the quadrature baseband reception signal.

Claim 39 (new): The multimode radio according to claim 38, further comprising a control section being connected to the second frequency divider, the first quadrature demodulator, and the second quadrature demodulator for switching a mode between a mode of receiving the first reception signal and a mode of receiving the second reception signal.

Claim 40 (new): The multimode radio according to claim 35, further comprising:

a local oscillator for outputting a local oscillation signal to the first frequency divider;

a first quadrature modulator to which the first in-phase local oscillation signal and the first quadrature local oscillation signal are input, the first quadrature modulator for performing quadrature modulation of an in-phase baseband transmission signal and a quadrature baseband transmission signal and outputting a first transmission signal having a first frequency;

a second quadrature modulator to which the second in-phase local oscillation signal and the second quadrature local oscillation signal are input, the second quadrature modulator for performing quadrature modulation of the in-phase baseband transmission signal and the quadrature baseband transmission signal and outputting a second transmission signal having a second frequency;

a first quadrature demodulator to which the first in-phase local oscillation signal and the first quadrature local oscillation signal are input, the first quadrature demodulator for performing quadrature demodulation of a first reception signal having the first frequency and outputting an in-phase baseband reception signal and a quadrature baseband reception signal; and

a second quadrature demodulator to which the second in-phase local oscillation signal and the second quadrature local oscillation signal are input, the second quadrature demodulator for performing quadrature demodulation of a second reception signal having the second frequency and outputting the in-phase baseband reception signal and the quadrature baseband reception signal.

Claim 41 (new): The multimode radio according to claim 40, further comprising a control section being connected to the second frequency divider, the first quadrature modulator, the second quadrature modulator, the first quadrature demodulator, and the second quadrature demodulator for switching a mode between a mode of transmitting the first transmission signal and receiving the first reception signal and a mode of transmitting the second reception signal.